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er and the second secon	MEMORANDUM FOR:	Deputy Director for Administration ODP #_8	1-62
	THROUGH:	Acting Deputy Director for Operations	
		Comptroller	
25X1	FROM:	Chief, Information Management Staff	
25X1	SUBJECT:	DDO Field Operational/Information Security Program	
	has been actived security at the been actions to paper indices and truction capabil. All of these measurity in the security in the stone of the production of the production over in the loss of classituations, because in an emergency of the almost paper effectiveness at tions of document distribution will be in a form task. 2. We have	past several years the Directorate of Operations y working on a program to improve information DO field facilities. Included in this program have reduce information holdings in the field, converted regulations to microfiche, install better destities, and improve information handling procedures as uses have been effective in enhancing information field and in forming the foundation for the capagram - the automated "paperless office". The ess office will permit the establishment of rigorous aformation flow. It will improve protection against as use electronic files can be more rapidly destroyed. In addition to enhancing information security, the security of the labor intensive function of the capagram of the preparation, handling, reproduction, filing, and the electronically supported and thus easier to be time consuming. Similarly, the retrieval of the faster and the presentation of information will be faster and the presentation of information will be deeper as the program, called CRAFT, since the program of th	1 25X1
25X1	effected; and hanalyzed in ord	ance, and operations planning have been initiated; implementation of four testbed systems , nas been ardware and software systems have been evaluated and er to stay abreast of technological advancements. off-the-shelf equipment to avoid long, resource-xpensive R&D efforts.)	
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- 3. Our requirements definition studies and experience with the testbed systems have resulted in the identification of functional requirements in five categories.
 - A. Full Text Document Electronic Storage and Retrieval

To provide better information control and facilitate the rapid destruction of field information holdings in the paperless office environment, a capability must be provided to support the electronic storage, retrieval, and display of incoming and outgoing docu-The document storage process must provide for initial document review; entry of intra-Station routing information, action indicators and general comments; generation of indexing information; and the filing of the document into one or more files. filing system must support multiple files which are logically and physically separate. For files that are separated only logically, the system will store only a single copy of the document, but the document must appear to the user to be contained in each uniquely named file to which the document is indexed. Automatic and user-initiated document purge by file and by system must be provided. Document purge will also include appropriate document-index updates. document retrieval process must facilitate retrieval by document number, addressee, subject, date, and/or substance (key word, key phrase, etc.). Further, a scrolling capability must be provided for file browsing.

B. Electronic Mail Distribution

The system must provide the capability for the electronic routing of documents to and from the central storage facility under the control of the master terminal. The system must also support distribution of documents to multiple addresses and include a broadcast capability. For security reasons distribution must be on an end-user demand basis. Workstation-to-workstation communication (via the central storage facility) must also be provided.

C. Word Processing

This capability is needed to provide a mechanism for source data automation of the documents prepared at the field facility. The specific features that must be supported are:

(1) Page - Forward or backward movement through a file of text, one screen at a time.

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- (2) Scroll Forward or backward movement through a file of text, one line at a time.
- (3) Insert Inserting text in an existing line; preexisting text will be separated in the designated position to make room.
- (4) Change Overtyping existing text with new characters.
- (5) Delete Eliminating characters, words, lines.
- (6) Move Relocate or copy a defined block of text from one location to another within the file.
- (7) Line-Number The ability to number lines.
- (8) Print or Display Formatting A file or a full screen of text may be displayed or printed. Formatting for files will consist of defining editor formats (e.g., lines-per-page, doublespace, margin sizes, right-justification, etc.), if desired.

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D.	Data	Processi	ng		-

E. Communications Interface

To close the loop on the paperless office, a mechanism is required that will facilitate the processing of incoming and outgoing message traffic in electronic form between the Station communications center and the information handling system. This interface must of necessity be either electrical or media (floppy disks, paper tape, etc.) in nature.

4. To comply with existing Agency policy as well as to meet program objectives and field station requirements, the selected system must have the following characteristics and features. (A summary of system requirements is provided at Annex A.)

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- Fully NACSEM 5100 (TEMPEST) certified to protect against the emanation of compromising signals.
- A high degree of reliability to ensure that the MTBF coupled with on-site redundant hardware and spare parts and area float equipment will result in a 99.9% system availability. (NOTE: Office of Communication will provide on-site and depot maintenance support. Contractor involvement will be limited to repair and return of plug board components and major end-item equipment that has experienced catastrophic failure.)
- The system must be compact and modular to permit installation in minimal space available in the DO field facilities and to allow for growth as requirements expand.
- The system must be secure. At a minimum, the system and file access must be under password control and data compartmentation must be supported; a system activity log must be maintained; non-removable memory must be volatile; magnetic disk units must be removable and easily degaussable (this eliminates the "sealed" disk unit technology); and an emergency disk destruction capability must be provided.
- For maintenance, spares, software, and operating supply efficiencies, standard, single family systems are required.
- The system must be "user-friendly" since the majority of field personnel will not be technically oriented.
- The system must be programmable to support the specific field processing requirements outlined in the previous paragraph.

5. As part of the project planning effort, IMS has been	
reviewing, analyzing, and testing various hardware configurations	
to determine the feasibility of obtaining an off-the-shelf system	
to support the project requirements. In the testbeds, VYDEC,	
Honeywell, and Delta Data products have been employed, and hands-on	
testing of the WANG, Lexitron, and Lanier product lines has been	
performed. None of these systems has been totally responsive to	25X1
the requirements. As can be seen from the attached market survey	23/(1
(Annex B), there is no single manufacturer that is vet capable of	
(Annex B), there is no single manufacturer that is no single manufacturer that is	7
meeting all of the project needs.	

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CIA Field Automation Requirements

I. GENERAL

All configurations used in support of the Agency's overseas automation project must

- employ standard, single line hardware components and application software systems;
- be modular;
- be user friendly with menus and prompts to assist the non-ADP professional field officer in the use of the system;
- 4. be compatible with Headquarters based computer systems to facilitate interaction and data exchange between the field and Headquarters;
- 5. remploy a work station that will function with either the field or Headquarters configurations.

II. FUNCTIONAL SUPPORT REQUIREMENTS

- A. Word Processing
 - Text edit functions to include insert, delete, move, copy, justify (by keystroke) characters, words, lines, paragraphs, and sections.
 - Input, edit, and output by document (not page), including pagination without user entered form feeds.
 - Search for and change character strings throughout a document or file of documents.
 - Pre-defined formatted screens for input.
 - 5. Programmable function keys to allow short keystroke use of common text and functions.

B. Document Storage and Retrieval

- Logical storage of documents in one or more files.
- 2. Retrievable by multiple, user specified, sections of the document.
- 3. Boolean logic capability for document retrieval.
- 4. Manipulation of incoming, outgoing, and stored documents.
- 5. Forward and backward paging through a retrieved document.
- Deletion of multiple number of documents by criteria such as document date.
- 7. Document annotation.

C. Electronic Mail

- Creation and editing of permanent distribution lists.
- 2. Automatic index of incoming queue for review by receiver.
- 3. Automatic confirmation of receipt.
- 4. Logical distribution of documents into user queues.
- 5. Schedulable automatic distribution to user.
- 6. Non-scheduled priority distribution at operator request.
- 7. Multi-point document distribution.

D. Data Management System

 Formatted screen to support data input and output.

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- Query language with Boolean logic including a "contains" verb for character by character search.
- Data validation, including table lookup, during input.
- 4. Exec language that allows individual tailoring of system functions.
- 5. Flexible report generation

E. Data Processing

- Security system that provides read and write password protection on all functions, documents, and files.
- 2. Multi-Key ascending and descending sort.
- File and volume utilities which provide create,
 delete, rename, and list functions.
 - 4. High level programming language which allows manipulation of all file types on the system.
 - 5. Workstation to workstation message communication.
- F. Comprehensive system security capability to support requirements set forth in the "Security Requirements for Automated Information Systems located in Overseas Installations."

III SYSTEM REOUIREMENTS

A. General

- 1. All System components TEMPEST certified.
- Size, sound, and power compatible with the office environment.
- 3. Hardware architecture to facilitate least replaceable unit (LRU) maintenance.

- 5. Operate on either 50 or 60 cycle power, between 110-220 volts.
- 6. Operate between 50 to 90 degrees Fahrenheit at 20 to 80% relative humidity.

7. Workstations

- a. Screen display size 80x24, horizontal scroll to 132.
- b. Screen display buffer 8k bytes.
- c. Locally programmable 128k bytes or automatic paging.
- d. Software trap and test on all keys.
- e. Functions keys that can be loaded under program control.
- f. Numeric key pad and cursor control keys.
- g. Telecommunications options to allow use as an interactive terminal with remote host.
- h. Multiple ports for connections with disk drives and printers.
- i. Alternate character sets.
- j. Support software required to implement all systems outlined in the functional requirements.

8. Disk/Diskette Storage

- a. Removable media.
- b. Media of common design to allow multiple suppliers.
- c. Sharable by more than one processor or workstation.
- d. Nonsealed disk packs.

9. Printer

- a. Impact type printing.
- b. Letter quality output on bond paper.
- c. Multiple fonts to include OCR-A and foreign alphabets.
- d. Printing speed of at least 40 CPS.
- e. Single sheet or form feed.
- f. Print width of 132 characters.

10. Central Processor

- a. Main memory sufficient to support multiprogramming of functional software and up to 24 simultaneous users.
- b. Able to support software required to implement all systems outlined in the functional support requirements.

B. Small Configuration

- Disk Drives sharable by all workstations.
 Multiple drives per configuration required for redundancy. Online capacity up to 80 MB each.
- Printer Two devices sharable by all workstations.
- Workstations 2 to 6.

C. Medium Configuration

- Disk Drives sharable by all workstations.
 Multiple devices per configuration required for
 redundancy. Online capacity up to 160 MB each.
- Printer 2 to 3 sharable by all workstations.
- Workstations 7 to 12.

- D. Large Configuration
 - Disk Drives sharable by all workstations. Multiple devices per configuration to provide redundancy. Online capacity up to 600 MB.
 - B. Printer up to 4 shared among workstations.
 - C. Workstations 12 to 24.

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27 April 1981

STAT	MEMORANDUM FOR:	
• •	FROM:	SG/ADB/AO

SUBJECT:

Market Survey of Tempest Approved

Office Information Systems

- 1. A market survey was conducted during March 1981 to determine the availability of Word Processing or Office Information Systems with Tempest Certification. This survey was intended to determine what, if any, systems are on the market which meet the specifications for both field and Headquarters installations as determined by the project design teams.
- 2. The criteria for evaluation included only the basic requirements in the following categories:
 - . Environmental
 - . Hardware
 - . Software
 - . Communications

The results of the survey concluded that, at this time, there are no vendors that can meet all of the design specifications on an available-for-delivery basis.

- 3. Following is a synopsis of what is on the market now as well as those systems which are scheduled for Tempest Certification testing in the immediate future.
 - a. Systems Currently Holding Tempest Certification
 - . CPT 8000T w/printer
 - . Delta Data 2768T
 - . DEC VT100-X
 - Lexitron VT1202T/1303T/1000T
 - . NBI 3000
 - . Wang WP-20/25/30
 - . Xerox 860T
 - b. Systems Undergoing Tempest Testing
 - . Burroughs RIII Series
 - . IBM Display Writer
 - . Lanier

